

## CLAIMS

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1. A computer software system comprising:  
a view sub-system including presentation objects which provide a user  
interface;  
10 a business logic sub-system including business object implementation objects  
which hold business data objects and implement business functions;  
a handler sub-system including controller objects which control a sequence of  
actions in a use case; and  
a view context sub-system including at least one context object which is  
15 arranged to capture input and output data.

2. The computer software system of claim 1 wherein:  
the view context sub-system is arranged to capture the input and output data  
20 which populates the presentation objects of the view sub-system.

3. The computer software system of claim 1, wherein:  
the view context sub-system also comprises data interfaces for the business  
25 logic sub-system.

4. The computer software system of claim 1, wherein:  
the context objects included in the view context sub-system are updated when  
30 input is entered into the view sub-system by a user; and

the context data objects are updated by the handler sub-system whenever business logic is executed on any of the context objects.

5        5.        The computer software system of claim 1 wherein:  
the view sub-system refreshes the presentation objects with the input and output data from the view context sub-system.

10       6.        The computer software system of claim 1, wherein:  
the view context sub-system is represented in a platform-independent format.

15       7.        The computer program comprising:  
at least one view object comprising presentation objects which provide a user interface;  
at least one business logic object comprising business data objects and arranged to implement business functions;  
at least one handler object which controls actions of at least one of the view  
20       objects and actions of at least one of the business objects; and  
at least one view context object comprising data objects which capture a state of at least one of the view objects.

25       8.        The computer program according to claim 7, wherein:  
each view context object is associated with a single view object; and  
the view context object is arranged to capture all data objects needed to populate the presentation objects of the associated view object at any one time.

30       9.        The computer program according to claim 8, wherein:

each view context object also comprises data interfaces for the business logic objects accessed in a use case in which the associated view participates.

- 5        10.    The computer program according to claim 8, wherein:  
         the data objects associated with a view context object are updated when input  
         is entered into the associated view object by a user; and  
         data elements are updated by a handler object whenever business logic is  
         executed on the data elements.

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11.    The computer program according to claim 8 wherein:  
         the view object associated with a view context object is refreshed with the  
         data objects associated with a view context object.

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12.    The computer program according to claim 7, wherein:  
         the at least one view context object is represented in a separate platform-  
         independent format.

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13.        A method of passing data in an object oriented application having at least  
         one handler object, the method comprising the steps of:  
         creating a view object with the handler object;  
         creating a view context object with the view object;  
         passing the view context object to the handler object;  
         Updating the view context object with the handler object; and  
         refreshing the view object from the view context object.

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